

RANKL/TNFSF11 Protein, Mouse (CHO, His)

Cat. No.:	HY-P700259
Synonyms:	rMuRANKL/TNFSF11, His; TRANCE; CD254
Species:	Mouse
Source:	CHO
Accession:	O35235 (R72-D316)
Gene ID:	21943
Molecular Weight:	Approximately 34.5 kDa

PROPERTIES

AA Sequence	<p> RAQMDPNRIS EDSTHCFYRI LRLHENADLQ DSTLESEDTL PDSCRMRKQA FQGAVQKELQ HIVGPQRFSG APAMMEGSWL DVAQRGKPEA QPFAHLTINA ASIPSGSHKV T L S S W Y H D R G WAKISNMTLS NGKLRVNQDG FYYLYANICF RHHETSGSVP TDY LQLMYYV VKTSIKIPSS HNL MKGGSTK NWSGNSEFHF YSINVGGFVK LRAGEEISIQ VSNPSLLDPD QDATYFGAFK VQDID </p>
Biological Activity	Measured by its ability to induce osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells. The ED ₅₀ is 0.2397 ng/mL, corresponding to a specific activity of 4.172 × 10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.8.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Receptor activator of NF-κB ligand (RANKL), its cellular receptor, receptor activator of NF-κB (RANK), and the decoy receptor osteoprotegerin (OPG) constitute a novel cytokine system. RANKL produced by osteoblastic lineage cells and activated T
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lymphocytes is the essential factor for osteoclast formation, fusion, activation, and survival, thus resulting in bone resorption and bone loss. RANKL activates its specific receptor, RANK located on osteoclasts and dendritic cells, and its signaling cascade involves stimulation of the c-jun, NF- κ B, and serine/threonine kinase PKB/Akt pathways^[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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